ELSEVIER

Journal of Controlled Release 46 (1997) 295–296

journal of controlled release

Contents Volume 46 (1997)

Vol. 46, Nos. 1,2 (5 MAY 1997)

Special Issue: Proceedings of CRS Ireland Special Symposium on Current Topics in Peptide Delivery

Editorial 1
Preface 3

Intestinal paracellular peptide transport: mobilization of intracellular calcium as a mechanism of tight junctional opening by 4-phenylazobenzoxycarbonyl–Pro–Leu–Gly–Pro–D-Arg (Pz-peptide) in the rabbit descending colon and Caco-2 cell monolayers
W.-C. Yen, Y. Higashi, V.H.L. Lee (Los Angeles, CA, USA) 5
Modified bile acids as carriers for peptides and drugs
W. Kramer, G. Wess, A. Enhsen, E. Falk, A. Hoffmann, G. Neckermann, G. Schubert, M. Urmann (Frankfurt am Main, Germany) 17
Structure and pharmacology of proton-linked peptide transporters
S. Nussberger, A. Steel, M.A. Hediger (Boston, MA, USA) 31
The challenge of proteolytic enzymes in intestinal peptide delivery
P. Langguth, V. Bohner, J. Heizmann, H.P. Merkle, S. Wolffram, G.L. Amidon, S. Yamashita (Zürich, Switzerland, Ann Arbor, MI, USA, Osaka, Japan) 39
The rationale for peptide drug delivery to the colon and the potential of polymeric carriers as effective tools
A. Rubinstein, B. Tirosh, M. Baluom, T. Nassar, A. David, R. Radai, I. Gliko-Kabir, M. Friedman (Jerusalem, Israel) 59
Adenovirus mediated gene transfer to intestinal epithelial cells as a potential approach for oral delivery of peptides and proteins
E. Walter, M.A. Croyle, B.L. Davidson, B.J. Roessler, J.M. Hilfinger, G.L. Amidon (Ann Arbor, MI, Iowa City, IA, USA) 75
Insulin and the gastrointestinal tract
M. Saffran, B. Pansky, G.C. Budd, F.E. Williams (Toledo, OH, USA) 89
Peptide delivery via the pulmonary route: a valid approach for local and systemic delivery
P.L. Smith (King of Prussia, PA, USA) 99
A microinfusor device for the delivery of therapeutic levels of peptides and macromolecules
E. Meehan, Y. Gross, D. Davidson, M. Martin, I. Tsals (Dublin, Athlone, Ireland) 107
Utilization of an endogenous cellular transport system for the delivery of therapeutics across the blood–brain barrier
P.M. Friden (Cambridge, MA, USA) 117
Targeted delivery of drugs and proteins to the liver via receptor-mediated endocytosis
M. Hashida, H. Hirabayashi, M. Nishikawa, Y. Takakura (Kyoto, Japan) 129
Isolated perfused liver as a tool to study the disposition of peptides, liver first-pass effects, and cell-specific drug delivery
D.K.F. Meijer, P.J. Swart (Groningen, The Netherlands) 139
Potential for lymphatic targeting of peptides
S. Muranishi, T. Fujita, M. Murakami, A. Yamamoto (Kyoto, Japan) 157
Liposomes: vehicles for the targeted and controlled delivery of peptides and proteins
D.J.A. Crommelin, T. Daemen, G.L. Scherphof, M.H. Vingerhoeds, J.L.M. Heeremans, C. Kluft, G. Storm (Utrecht, Groningen, Leiden, The Netherlands) 165
Abstracts 177

Vol. 46, No. 3 (2 JUNE 1997)

Simulation of the effect of variable duration of absorption on steady-state plasma levels of drugs administered orally as zero-order delivery systems
J.P. Guédès (Tours, France) and W. Couet (Poitiers, France) 197
The penetration of supersaturated solutions of piroxicam across silicone membranes and human skin in vitro
M.A. Pellett (Cardiff, UK), S. Castellano (Madrid, Spain), J. Hadgraft (Cardiff, UK) and A.F. Davis (Surrey, UK) 205

Effect of dissolution media and additives on the drug release from cubic phase delivery systems
C.-M. Chang (Austin, TX, USA) and R. Bodmeier (Berlin, Germany) 215
PEG-coated nanospheres from amphiphilic diblock and multiblock copolymers: Investigation of their drug encapsulation and release characteristics
M.T. Peracchia, R. Gref, Y. Minamitake, A. Domb, N. Lotan, R. Langer (Cambridge, MA, USA) 223
Light microscopical observations on luminally administered dyes, dextrans, nanospheres and microspheres in the pre-epithelial mucus gel layer of the rat distal colon
L. Szentkuti (Hannover, Germany) 233
Targeted and sustained delivery of hydrocortisone to normal and stratum corneum-removed skin without enhanced skin absorption using a liposome gel
M.-K. Kim, S.-J. Chung, M.-H. Lee, A.-R. Cho, C.-K. Shim (Seoul, South Korea) 243
Prolongation of the serum half-life period of superoxide dismutase by poly(ethylene glycol) modification
R. Nakaoka, Y. Tabata, T. Yamaoka, Y. Ikada (Kyoto, Japan) 253
Release of 5-fluorouracil from thermosensitive magnetoliposomes induced by an electromagnetic field
E. Viroonchatapan, H. Sato, M. Ueno, I. Adachi, K. Tazawa, I. Horikoshi (Toyama, Japan) 263
Hydrogel beads based on amidated pectins for colon-specific drug delivery: the role of chitosan in modifying drug release
O. Munjeri, J.H. Collett, J.T. Fell (Manchester, UK) 273
Modification of drug penetration into human skin using microemulsions
U. Schmalfuß, R. Neubert, W. Wohlrab (Halle/S, Germany) 279

Book Reviews 287
Author Index Volume 46 291
Subject Index Volume 46 293
Contents Volume 46 295
Instructions to Authors 297